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Compositions comprising a herbicide wherein it is desired that the compound not be retained by the plant foliage, and a repellant adjuvant, wherein the repellant modifies the surface properties of composition so that retention of the composition on foliage of a cultivated plant is reduced are described. In particular, the herbicide composition comprises a repellant adjuvant that is an aqueous solution of an alkvltrialkoxysilane such as methyltrimethoxysilane and a water soluble silane coupling agent such as N-(2aminoethyl)-3-aminopropyltrimethoxysilane or an aqueous solution of an organosiliconate such as sodium methyl siliconate. Methods are described for using these compositions to prevent weeds without injury to cultivated plants, which plants include crop plants, food plants, turfgrass, ornamental plants, and garden plants.